

ESTD 060

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Flag-peptide      GAD65      Sgf I      IA2      Sgf I      PPINS      poly-his  
DYKDDDDK-----KKKRPRKKK-----KKKRPRKKK-----CNGSHHHHHH

FIG. 1a

Flag-peptide      GAD65      Not I      IA2      Not I      PPINS      poly-his  
DYKDDDDK-----KKKRSRKKK-----KKKRSRKKK-----CNGSHHHHHH

FIG. 1b

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APPROVED	C.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

1A2 Underlined aa 771-979 Accession No. L18983

MRRPRPGGLGGSGGLRLLLCLLSSRPGGCSAVSAHGLCFDRRISSHIECVIJDGLIFGQCQVGVGQARPLIQVTSPVILQRL  
QGVLRQLMSQQGLSWHDDLTOQYVISQEMERIPRLRPPEPRPRDRSGLAPKRPGPAGELLOQDIPITGSAPAQAQHRLPQPVGKGG  
AGASSSSLSPQAELLPPLEHLLPPQPHPSLSYEPALLQPYLFHQFGSRDGSRVSEGSPGMVSVGFLPKAEAPALFSRTASKGI  
FGDHPGHSHYGDLPGPSPAQLFQDGSGLYLAQELPAPSRAVPRLPAGEQGSSSRAEDSPGEGYEKEGLGDRGEKPKASPAVOPDAAL  
QRLAAVLAGYYGVELRQLTPEQLSLTLQLLPKAGGRNPGVVNVGADIKKTMEGPVEGRDTAELPARTSPMPGHIPTASPT  
SSEVQQVPSPVSSEPPKAARPPVTPVLEKKSPLGQSQPTVAQQPSARPAAEEYYGYIVTDQKPLSLAAGVKLIELAEHVHMSS  
GSEFINISVVGPAALTFRIRHNEQNLSLADVTQAGLVKSELEAQATGLQTLQTGVGQREEAAAVLPQTAHSTSPMRSVLLTLVALA  
GVAGLLVALAVALCVRQHARQQDKERLAALGPEGAHGDDTFEYQDLCRQHMAKSFLNRNAEGPPERSRVSSSSQFSDAAQ  
ASPPSHSSTPSWCEEPAQANMDISTGHMILAYMEDHLRNDRRLAKEWQALCAYQAEPNTCATAQGEGENNIKKNRHPDFLPYDH  
ARIKLKVESSPSRSDYINASPIEHDPRMPAYIATQGPLSHTIADEFWQMWWESGCTVIVMLTPLVEDGVKOCDRYWPDEGASLY  
HYYEVNLVSEHIWCEDFLVRSFYLNKVQTOETRLTOFHFLSWPAEGTPASTRPLDFRKVNKCYRGRCPIUVHCSIDGAGR  
TGTYLIDMVLNRMMAKGVKEIDIAATLEHVRDORPGLYRSKDQFEFAITA VAEENAILKALPQ

FIG. 2a

GAD65 Underlined aa102-585 Accession No. M74826

MASPGSGFWSGFSEDGSGDSENPGBTARAWCQVAQKFTGGIGNKLCALLYGDAEKPAESGGSQPPRAAARKAACACDQKPCS  
CSKVDVNYAFLHATDLLPACCDGERPTLAFLQDMVGLAADDWLTSTANTNMFTYEAPVFLYVTLKMMREIGWPGGSGDGIFSPGGAI  
OTILKYAIKTHGPRYFNOLSTGLDMVGLAADDWLTSTANTNMFTYEAPVFLYVTLKMMREIGWPGGSGDGIFSPGGAI  
NNYAMMIARFKMFPEVKGMAALPRJIAFTSEHSHFSLKKGAAALGIGTDSVILIKCDERGKMPSDLERRILEAKQKGFVPF  
LVSATAGTTVYGAFDPLAVADICKKKYKIWMHYDAAWGGGLMSRHKWKLSGVVERANSVTWNPHKMMGVPLQCSALLY  
REFGLMQNCNOMHASYLFOQDKHYDLSYDTGDKALOCCRHRVDVFKLWLMWRAKGTTGFEAHVDKCLELAEYLYNIIKNR  
EGYEMVFDFGKPOHTINVCFWYPPSLRTLEDNEERMSRLSKVAVPIKARMMEYGTIMVSYOPLGDKVNNEFRMVISNPAATHQ  
DIDEJEEIERLGDLL

FIG. 2b

Translation Human preproinsulin.  
EMBL accession nr. v00565

MALWMRLLPLLLALLWGPDPAAAFVNQHLCGSHLVEALYLVCGERGFFYT  
PKTRRREAEDLQVGGQVELGGGGAGSLQPLALEGSLOQKRQGIVEQCCTSICSLYQ  
LENYCN

FIG. 2c

**Human GAD65 nucleotide sequence**

M74826 Length: 2457 September 1, 1995 12:22 Type: N Check: 8038 ..

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

1 ACCCGCCCTC GCCGCTCGGC CCCGCGCGTC CCCGCGCGTG CCCTCCTCCC  
51 GCCACACGGC ACGCACGCGC GCGCAGGCC AAGCCGAGGC AGCCGCCCGC  
101 AGCTCGCACT CGCTGGCGAC CTGCTCCAGT CTCCAAAGCC GATGGCATCT  
151 CCGGGCTCTG GCTTTGGTC TTTCGGGTG GAAGATGGCT CTGGGGATTG  
201 CGAGAATCCC GGCACAGCGC GAGCCTGGTG CCAAGTGGCT CAGAAGTTCA  
251 CGGGCGGCAT CGGAAACAAA CTGTGCGCCC TGCTCTACGG AGACGCCGAG  
301 AAGCCGGCGG AGAGCGGCGG GAGCCAACCC CCGCGGGCCG CCGCCCGGAA  
351 GGCGCGCTGC GCCTGCGACC AGAACCCCTG CAGCTGCTCC AAAGTGGATG  
401 TCAACTACGC GTTTCTCCAT GCAACAGACC TGCTGCCGGC GTGTGATGGA  
  
451 GAAAGGCCCA CTTTGGCGTT TCTGCAAGAT GTTATGAACA TTTTACTTCA  
501 GTATGTGGTG AAAAGTTCG ATAGATCAAC CAAAGTGATT GATTCCATT  
551 ATCCTAATGA GCTTCTCAA GAATATAATT GGGATTGGC AGACCAACCA  
601 CAAAATTGG AGGAAATTG GATGCATTGC CAAACAACTC TAAAATATGC  
651 AATTAAAACA GGGCATCCTA GATACTCAA TCAACTTTCT ACTGGTTGG  
701 ATATGGTTGG ATTAGCAGCA GACTGGCTGA CATCACAGC AAATACTAAC  
751 ATGTTCACCT ATGAAATTGC TCCAGTATT GTGCTTTGG AATATGTCAC  
801 ACTAAAGAAA ATGAGAGAAA TCATTGGCTG GCCAGGGGGC TCTGGCGATG  
851 GGATATTTTC TCCCAGGTGGC GCCATATCTA ACATGTATGC CATGATGATC  
901 GCACGTTTA AGATGTTCCC AGAAGTCAAG GAGAAAGGAA TGGCTGCTCT  
951 TCCCAGGCTC ATTGCCTCA CGTCTGAACA TAGTCATTT TCTCTCAAGA  
1001 AGGGAGCTGC AGCCTTAGGG ATTGGAACAG ACAGCGTGAT TCTGATTAAA  
1051 TGTGATGAGA GAGGGAAAAT GATTCCATCT GATCTTGAAA GAAGGATTCT  
1101 TGAAGCCAAA CAGAAAGGGT TTGTTCCCTT CCTCGTGAGT GCCACAGCTG  
1151 GAACCACCGT GTACGGAGCA TTTGACCCCC TCTTAGCTGT CGCTGACATT  
1201 TGCAAAAAGT ATAAGATCTG GATGCATGTG GATGCAGCTT GGGGTGGGGG  
1251 ATTACTGATG TCCCAGAAC ACAAGTGGAA ACTGAGTGGC GTGGAGAGGG

**FIG. 3a**

866270 "56E5F060

APPROVED	O.G. FIG.
	CLASS SUBCLASS
BY	DRAFTSMAN

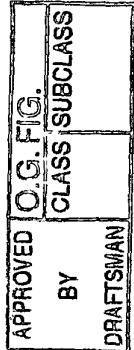
B666210 • FIGURE 3b

1301 CCAACTCTGT GACGTGGAAT CCACACAAGA TGATGGAGT CCCTTGAG  
 1351 TGCTCTGCTC TCCTGGTAG AGAAGAGGGA TTGATGCAGA ATTGCAACCA  
 1401 AATGCATGCC TCCTACCTCT TTCAGCAAGA TAAACATTAT GACCTGTCT  
 1451 ATGACACTGG AGACAAGGCC TTACAGTGCG GACGCCACGT TGATGTTTT  
 1501 AAACTATGGC TGATGTGGAG GGCAAAGGGG ACTACCGGGT TTGAAGCGCA  
 1551 TGTTGATAAA TGTTGGAGT TGGCAGAGTA TTTATACAAC ATCATAAAAA  
 1601 ACCGAGAAGG ATATGAGATG GTGTTGATG GGAAGCCTCA GCACACAAAT  
 1651 GTCTGCTTCT GGTACATTCC TCCAAGCTTG CGTACTCTGG AAGACAATGA  
 1701 AGAGAGAATG AGTCGCCTCT CGAAGGTGGC TCCAGTGATT AAAGCCAGAA  
 1751 TGATGGAGTA TGGAAACCACA ATGGTCAGCT ACCAACCTT GGGAGACAAG  
 1801 GTCAATTCT TCCGCATGGT CATCTCAAAC CCAGCGGCAA CTCACCAAGA  
 1851 CATTGACTTC CTGATTGAAG AAATAGAACG CCTTGGACAA GATTATAAT  
 1901 AACCTTGCTC ACCAAGCTGT TCCACTTCTC TAGAGAACAT GCCCTCAGCT  
 1951 AAGCCCCCTA CTGAGAAACT TCCTTGAGA ATTGTGCGAC TTCACAAAAT  
 2001 GCAAGGTGAA CACCACTTG TCTCTGAGAA CAGACGTTAC CAATTATGGA  
 2051 GTGTCACCAAG CTGCCAAAAT CGTAGGTGTT GGCTCTGCTG GTCACTGGAG  
 2101 TAGTTGCTAC TCTTCAGAAT ATGGACAAAG AAGGCACAGG TGTAAATATA  
 2151 GTAGCAGGAT GAGGAACCTC AAACCTGGTA TCATTGAC GTGCTTTCT  
 2201 GTTCTCAAAT GCTAAATGCA AACACTGTGT ATTATTAGT TAGGTGTGCC  
 2251 AAACCTACCGT TCCCAAATTG GTGTTCTGA ATGACATCAA CATTCCCCA  
 2301 ACATTACTCC ATTACTAAAG ACAGAAAAAA ATAAAAACAT AAAATATACA  
 2351 AACATGTGGC AACCTGTTCT TCCTACCAAA TATAAACTTG TGTATGATCC  
 2401 AAGTATTAA TCTGTGTTGT CTCTCTAAAC CCAAATAAT GTGTAAATGT  
 2451 GGACACA

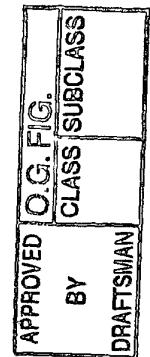
FIG. 3b

## Human IA-2 nucleotide sequence

L18983 Length: 3613 November 20, 1997 16:45 Type: N Check: 6409 ..



1 CAGCCCCCTCT GGCAGGCTCC CGCCAGCGTC GCTGCGGCTC CGGCCCGGG  
51 GCGAGCGCCC GGAGCTCGGA AAGATGCGGC GCCCGCGGCG GCCTGGGGT  
101 CTCGGGGAT CGGGGGTCT CCGGCTGCTC CTCTGCCTCC TGCTGCTGAG  
151 CAGCCGCCCG GGGGGCTGCA GCGCCGTTAG TGCCCACGGC TGTCTATTG  
201 ACCGCAGGCT CTGCTCTCAC CTGGAAGTCT GTATTCAAGGA TGGCTTGT  
251 GGGCAGTGCC AGGTGGGAGT GGGGCAGGCC CGGCCCTTT TGCAAGTCAC  
301 CTCCCCAGTT CTCCAACGCT TACAAGGTGT GCTCCGACAA CTCATGTCCC  
351 AAGGATTGTC CTGGCACGAT GACCTCACCC AGTATGTGAT CTCTCAGGAG  
401 ATGGAGCGCA TCCCCAGGCT TCGCCCCCA GAGCCCCGTC CAAGGGACAG  
451 GTCTGGCTTG GCACCCAAGA GACCTGGTCC TGCTGGAGAG CTGCTTTAC  
501 AGGACATCCC CACTGGCTCC GCCCCTGCTG CCCAGCATCG GCTTCCACAA  
551 CCACCAGTGG GCAAAGGTGG AGCTGGGCC AGCTCCTCTC TGTCCCTCT  
601 GCAGGCTGAG CTGCTCCCGC CTCTCTTGGA GCACCTGCTG CTGCCCCAC  
651 AGCCTCCCCA CCCTTCACTG AGTTACGAAC CTGCCTTGCT GCAGCCCTAC  
701 CTGTTCCACC AGTTGGCTC CCGTGATGGC TCCAGGGTCT CAGAGGGCTC  
751 CCCAGGGATG GTCAGTGTG GCCCCCTGCC CAAGGCTGAA GCCCCTGCC  
801 TCTTCAGCAG AACTGCCTCC AAGGGCATAT TTGGGGACCA CCCTGGCCAC  
851 TCCTACGGGG ACCTTCCAGG GCCTTCACCT GCCCAGCTT TTCAAGACTC  
901 TGGGCTGCTC TATCTGGCCC AGGAGTTGCC AGCACCCAGC AGGGCCAGGG  
951 TGCCAAGGCT GCCAGAGCAA GGGAGCAGCA GCCGGGCAGA GGACTCCCCA  
1001 GAGGGCTATG AGAAGGAAGG ACTAGGGGAT CGTGGAGAGA AGCCTGCTTC  
1051 CCCAGCTGTG CAGCCAGATG CGGCTCTGCA GAGGCTGGCC GCTGTGCTGG  
1101 CGGGCTATGG GGTAGAGCTG CGTCAGCTGA CCCCTGAGCA GCTCTCCACA  
1151 CTCCCTGACCC TGCTGCAGCT ACTGCCAAG GGTGCAGGAA GAAATCCGGG  
1201 AGGGGTTGTA AATGTTGGAG CTGATATCAA GAAAACAATG GAGGGGCCGG  
1251 TGGAGGGCAG AGACACAGCA GAGCTTCCAG CCCGCACATC CCCCATGCCT



SEARCHED INDEXED  
SERIALIZED FILED

1301 GGACACCCCA CTGCCAGCCC TACCTCCAGT GAAGTCCAGC AGGTGCCAAG  
1351 CCCTGTCTCC TCTGAGCCTC CCAAAGCTGC CAGACCCCT GTGACACCTG  
1401 TCCTGCTAGA GAAGAAAAGC CCACTGGGCC AGAGCCAGCC CACGGTGGCA  
1451 GGACAGCCCT CAGCCCGCCC AGCAGCAGAG GAATATGGCT ACATCGTCAC  
1501 TGATCAGAAG CCCCTGAGCC TGGCTGCAGG AGTGAAGCTG CTGGAGATCC  
1551 TGGCTGAGCA TGTGCACATG TCCTCAGGCA GCTTCATCAA CATCAGTGTG  
1601 GTGGGACCAG CCCTCACCTT CCGCATCCGG CACAATGAGC AGAACCTGTC  
1651 TTTGGCTGAT GTGACCCAAC AAGCAGGGCT GGTGAAGTCT GAACTGGAAG  
1701 CACAGACAGG GCTCCAAATC TTGCAGACAG GAGTGGGACA GAGGGAGGAG  
1751 GCAGCTGCAG TCCTTCCCCA AACTGCCAC AGCACCTCAC CCATGCCCTC  
1801 AGTGCTGCTC ACTCTGGTGG CCCTGGCAGG TGTGGCTGGG CTGCTGGTGG  
1851 CTCTGGCTGT GGCTCTGTGT GTGCCGCAGC ATGCGCGCA GCAAGACAAG  
1901 GAGCGCCTGG CAGCCCTGGG GCCTGAGGGG GCCCATGGTG AACTACCTT  
1951 TGAGTACCAAG GACCTGTGCC GCCAGCACAT GGCCACGAAG TCCTTGTCA  
2001 ACCGGGCAGA GGGTCCACCG GAGCCTTCAC GGGTGAGCAG TGTGTCCTCC  
2051 CAGTTCAGCG ACAGCAGCCCA GGCCAGCCCC AGCTCCCACA GCAGCACCCCC  
2101 GTCCTGGTGC GAGGAGCCGG CCCAAGCCAA CATGGACATC TCCACGGGAC  
2151 ACATGATTCT GGCAATACATG GAGGATCACC TGCAGAACCG GGACCGCCTT  
2201 GCCAAGGAGT GGCAAGGCCCT CTGTGCCCTAC CAAGCAGAGC CAAACACCTG  
2251 TGCCACCGCG CAGGGGGAGG GCAACATCAA AAAGAACCGG CATCCTGACT  
2301 TCCTGCCCTA TGACCATGCC CGCATAAAAC TGAAGGTGGA GAGCAGGCCCT  
2351 TCTCGGAGCG ATTACATCAA CGCCAGCCCC ATTATTGAGC ATGACCCCTCG  
2401 GATGCCAGCC TACATAGCCA CGCAGGGCCC GCTGTCCCAT ACCATCGCAG  
2451 ACTTCTGGCA GATGGTGTGG GAGAGCGGCT GCACCGTCAT CGTCATGCTG  
2501 ACCCCGCTGG TGGAGGATGG TGTCAAGCAG TGTGACCGCT ACTGGCCAGA  
2551 TGAGGGTGCC TCCCTCTACC ACGTATATGA GGTGAACCTG GTGTGGAGC  
2601 ACATCTGGTG CGAGGACTTT CTGGTGCAGA GCTTCTACCT GAAGAACGTG  
2651 CAGACCCAGG AGACGCGCAC GCTCACCGAG TTCCACTTCC TCAGCTGGCC

FIG. 3d

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	
DRAFTSMAN	

665210-00000000000000000000000000000000

2701 GGCAGAGGGC ACACCGGCCT CCACGCGGCC CCTGCTGGAC TTCCGCAGGA  
2751 AGGTGAACAA GTGCTACCGG GGCGCTCCT GCCCATCAT CGTCACTGC  
2801 AGTGATGGTG CGGGGAGGAC CGGCACCTAC ATCCTCATCG ACATGGTCCT  
2851 GAACCGCATG GCAAAAGGAG TGAAGGAGAT TGACATCGCT GCCACCCTGG  
2901 AGCATGTCCG TGACCAGCGG CCTGGCCTTG TCCGCTCTAA GGACCAGTTT  
  
2951 GAATTGCCCG TGACAGCCGT GGCGGAGGAA GTGAATGCCA TCCTCAAGGC  
3001 CCTGCCCCAG TGAGACCCCTG GGGCCCCTTG GCAGGCAGCC CAGCCTCTGT  
3051 CCCTCTTGC CTGTGTGAGC ATCTCTGTGT ACCCACTCCT CACTGCCCA  
3101 CCAGCCACCT CTTGGGCATG CTCAGCCCTT CCTAGAAGAG TCAGGAAGGG  
3151 AAAGCCAGAA GGGGCACGCC TGCCCAGCCT CGCATGCCAG AGCCTGGGGC  
3201 ATCCCAGAGC CCAGGGCATC CCATGGGGGT GCTGCAGCCA GGAGGAGAGG  
3251 AAAGGACATG GGTAGCAATT CTACCCAGAG CCTTCTCCTG CCTACATTCC  
3301 CTGGCCTGGC TCTCCTGTAG CTCTCCTGGG GTTCTGGAG TTCCCTGAAC  
3351 ATCTGTGTGT GTCCCCCTAT GCTCCAGTAT GGAAGAATGG GGTGGAGGGT  
3401 CGCCACACCC GGCTCCCCCT GCTTCTCAGC CCCGGGCCTG CCTCTGACTC  
3451 ACACTTGGGC GCTCTGCCCT CCCTGGCCTC ACGCCCAGCC TGGTCCCACC  
3501 ACCCTCCCAC CATGCGCTGC TCAACCTCTC TCCTCTGGC GCAAGAGAAC  
3551 ATTTCTAGAA AAAACTACTT TTGTACCAAGT GTGAATAAAG TTAGTGTGTT  
3601 GTCTGTGCAG CTG

FIG. 3e

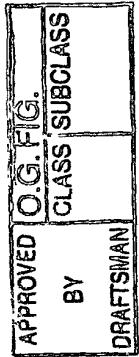
PREPROINSULIINI

Exon sequences, i.e. sequences to be used in the patent are underlined and represent exon sequences.

V00565 Length: 4992 December 18, 1997 17:50 Type: N Check: 9721 ..

1 CTCGAGGGGC CTAGACATTG CCCTCCAGAG AGAGCACCCA ACACCCTCCA  
51 GGCTTGACCG GCCAGGGTGT CCCCTTCCTA CCTTGGAGAG AGCAGCCCCA  
101 GGGCATCCTG CAGGGGGTGC TGGGACACCA GCTGCCITC AAGGTCTCTG  
151 CCTCCCTCCA GCCACCCCAC TACACGCTGC TGGGATCCTG GATCTCAGCT  
201 CCCTGGCCGA CAACACTGGC AAACCTCTAC TCATCCACGA AGGCCCTCCT  
251 GGGCATGGTG GTCTTCCCA GCCTGGCAGT CTGTTCCCTCA CACACCTTGT  
301 TAGTGCCAG CCCCTGAGGT TGCAGCTGGG GGTGTCTCTG AAGGGCTGTG  
351 AGCCCCCAGG AAGCCCTGGG GAAGTGCCTG CCTTGCCCTCC CCCCGGCCCT  
401 GCCAGCGCCT GGCTCTGCC TCCTACCTGG GCTCCCCCA TCCAGCCTCC  
451 CTCCCTACAC ACTCCTCTCA AGGAGGCACC CATGTCCTCT CCAGCTGCCG  
501 GGCCTCAGAG CACTGTGGCG TCCTGGGCA GCCACCGCAT GTCCCTGCTGT  
551 GGCATGGCTC AGGGTGGAAA GGGCGGAAGG GAGGGTCCT GCAGATAAGCT  
601 GGTGCCACT ACCAAACCG CTCGGGCAG GAGAGCCAA GGCTGGGTGT  
651 GTGCAGAGCG GCCCGAGAG GTTCCGAGGC TGAGGCCAGG GTGGGACATA  
701 GGGATGCGAG GGGCGGGGC ACAGGATACT CCAACCTGCC TGCCCCCATG  
751 GTCTCATCCT CCTGCTTCTG GGACCTCCTG ATCCTGCCCT TGTTGCTAAG  
801 AGGCAGGTAA GGGGCTGCAG GCAGCAGGGC TCGGAGCCCA TGCCCCCTCA  
851 CCATGGGTCA GGCTGGACCT CCAGGTGCCT GTTCTGGGA GCTGGGAGGG  
901 CCGGAGGGGT GTACCCAGG GGCTCAGCCC AGATGACACT ATGGGGGTGA  
951 TGGTGTCAATG GGACCTGGCC AGGAGAGGGG AGATGGGCTC CCAGAAGAGG  
1001 AGTGGGGGCT GAGAGGGTGC CTGGGGGGCC AGGACGGAGC TGGGCCAGTG  
1051 CACAGCTTCC CACACCTGCC CACCCCCAGA GTCTGCCGC CACCCCCAGA  
1101 TCACACGGAA GATGAGGTCC GAGTGGCTG CTGAGGACTT GCTGCTTGT  
1151 CCCAGGTCCC CAGGTCAATGC CCTCCTTCTG CCACCCCTGGG GAGCTGAGGG  
1201 CCTCAGCTGG GGCTGCTGTC CTAAGGCAGG GTGGGAACTA GGCAGGCCAGC  
1251 AGGGAGGGGA CCCCTCCCTC ACTCCCACTC TCCCACCCCC ACCACCTTGG  
1301 CCCATCCATG CGGGCATCTT GGGCCATCCG GGACTGGGA CAGGGGTCC  
1351 GGGGACAGGG GTCCGGGGAC AGGGTCCTGG GGACAGGGT GTGGGGACAG

FIG. 3f



060210-66657060

APPROVED	<input checked="" type="checkbox"/>	FIG.
	<input checked="" type="checkbox"/>	C. CLASS
	<input checked="" type="checkbox"/>	SUBCLASS
BY	DRAFTSMAN	

DEPARTMENT OF STATE

1401 GGGTCTGGGG ACAGGGGTGT GGGGACAGGG GTGTGGGAC AGGGGTCTGG  
 1451 GGACAGGGGT GTGGGGACAG GGGTCCGGGG ACAGGGGTGT GGGGACAGGG  
 1501 GTCTGGGAC AGGGGTGTGG GGACAGGGGT GTGGGACAG GGGTCTGGG  
 1551 ACAGGGGTGT GGGGACAGGG GTCCTGGGA CAGGGGTGTG GGGACAGGGG  
 1601 TGTGGGGACA GGGGTGTGGG GACAGGGGTG TGGGGACAGG GGTCTGGGG  
 1651 ATAGGGGTGT GGGGACAGGG GTGTGGGAC AGGGGTCCC GGGACAGGGG  
 1701 TGTGGGGACA GGGGTGTGGG GACAGGGTC CTGGGGACAG GGGTCTGAGG  
 1751 ACAGGGGTGT GGGCACAGGG GTCCTGGGA CAGGGTCCT GGGGACAGGG  
 1801 GTCCTGGGA CAGGGTCTG GGGACAGCAG CGCAAAGAGC CCCGCCCTGC  
 1851 AGCCTCCAGC TCTCCTGGTC TAATGTGGAA AGTGGCCCAG GTGAGGGCTT  
 1901 TGCTCTCCTG GAGACATTG CCCCCAGCTG TGAGCAGGGA CAGGTCTGGC  
 1951 CACCGGGCCC CTGGTTAAGA CTCTAATGAC CCGCTGGTCC TGAGGAAGAG  
 2001 GTGCTGACGA CCAAGGAGAT CTTCCCACAG ACCCAGCACC AGGGAAATGG  
 2051 TCCGGAAATT GCAGCCTCAG CCCCCAGCCA TCTGCCGACC CCCCCACCCC  
 2101 GCCCTAATGG GCCAGGGGGC AGGGGTTGAC AGGTAGGGGA GATGGGCTCT  
 2151 GAGACTATAA AGCCAGCGGG GGCCCAGCAG CCCTCAGCCC TCCAGGACAG  
 2201 GCTGCATCAG AAGAGGCCAT CAAGCAGGTC TGTTCCAAGG GCCTTGCGT  
 2251 CAGGTGGGCT CAGGGTTCCA GGGTGGCTGG ACCCCAGGCC CCAGCTCTGC  
 2301 AGCAGGGAGG ACGTGGCTGG GCTCGTGAAG CATGTGGGGG TGAGCCCAGG  
 2351 GGCCCCAAGG CAGGGCACCT GGCCTTCAGC CTGCCTCAGC CCTGCCTGTC  
 2401 TCCCAGATCA CTGCTCTCT GCCATGGCCC TGTGGATGCG CCTCCTGCC  
 2451 CTGCTGGCGC TGCTGGCCCT CTGGGGACCT GACCCAGCCG CAGCCTTGT  
 2501 GAACCAACAC CTGTGGGCT CACACCTGGT GGAAGCTCTC TACCTAGTGT  
 2551 GCGGGGAACG AGGCTCTTC TACACACCCA AGACCCGCCG GGAGGCAGAG  
 2601 GACCTGCAGG GTGAGCCAAC CGCCCATTGC TGCCCTGGC CGCCCCCAGC  
 2651 CACCCCCCTGC TCCTGGCGCT CCCACCCAGC ATGGGCAGAA GGGGGCAGGA  
 2701 GGCTGCCACC CAGCAGGGGG TCAGGTGCAC TTTTTAAAAA AGAAGTTCTC  
 2751 TTGGTCACGT CCTAAAAGTG ACCAGCTCCC TGTGGCCAG TCAGAATCTC  
 2801 AGCCTGAGGA CGGTGTTGGC TTCGGCAGCC CCGAGATACA TCAGAGGGTG  
 2851 GGCACGCTCC TCCCTCCACT CGCCCCCTCAA ACAAATGCC CGCAGCCCAG

FIG. 3g

APPROVED	O.G.FIG.
	CLASS SUBCLASS
BY	DRAFTSMAN

2016-07-05 FIG. 3h

2901 TTCTCCACCC TCATTTGATG ACCGCAGATT CAAGTGTGTT GTTAAGTAAA  
 2951 GTCCTGGGTG ACCTGGGTCA ACAGGGTGCC CCACGCTGCC TGCGCTCTGGG  
 3001 CGAACACCCCC ATCACGCCCG GAGGAGGGCG TGGCTGCCTG CCTGAGTGGG  
 3051 CCAGACCCCT GTCGCCAGCC TCACGGCAGC TCCATAGTCA GGAGATGGG  
 3101 AAGATGCTGG GGACAGGCCG TGGGGAGAAG TACTGGGATC ACCTGTTCA  
 3151 GCTCCCCTG TGACGCTGCC CGGGGGCGGG GGAAGGAGGT GGGACATGTG  
 3201 GGCCTTGGGG CCTGTAGGTC CACACCCAGT GTGGGTGACC CTCCCTCTAA  
 3251 CCTGGGTCCA GCCCGGCTGG AGATGGGTGG GAGTGCACCC TAGGGCTGGC  
 3301 GGGCAGGCCGG GCACTGTGTC TCCCTGACTG TGTCCCTCTG TGTCCCTCTG  
 3351 CCTCGCCGCT GTTCCGGAAC CTGCTCTGCG CGGCACGTCC TGGCAGTGGG  
 3401 GCAGGTGGAG CTGGGCGGGG GCCCTGGTGC AGGCAGCCTG CAGCCCTTGG  
 3451 CCCTGGAGGG GTCCCTGCAG AAGCGTGGCA TTGTGGAACA ATGCTGTACC  
 3501 AGCATCTGCT CCCTCTACCA GCTGGAGAAC TACTGCAACT AGACGCAGCC  
 3551 TGCAGGCAGC CCCACACCCG CGGCCTCCTG CACCGAGAGA GATGGAATAA  
 3601 AGCCCTTGAA CCAGCCCTGC TGTGCCGTCT GTGTGTCTTG GGGGCCCTGG  
 3651 GCCAAGCCCC ACTTCCCAGC ACTGTTGTGA GCCCCTCCCA GCTCTCTCCA  
 3701 CGCTCTCTGG GTGCCACAG GTGCCAACGC CAGGCAGGCC CAGCATGCAG  
 3751 TGGCTCTCCC CAAAGCGGCC ATGCCTGTTG GCTGCCTGCT GCCCCCACCC  
 3801 TGTGGCTCAG GGTCCAGTAT GGGAGCTTCG GGGGTCTCTG AGGGGCCAGG  
 3851 GATGGTGGGG CCACTGAGAA GTGACTCTGT CAGTAGCCGA CCTGGAGTCC  
 3901 CCAGAGACCT TGTCAGGAA AGGGAATGAG AACATTCCAG CAATTTCCC  
 3951 CCCACCTAGC CCTCCCAGGT TCTATTTTA GAGTTATTC TGATGGAGTC  
 4001 CCTGTGGAGG GAGGAGGGCTG GGCTGAGGGA GGGGGCCTG CAGGGCGGGG  
 4051 GGCTGGGAAG GTGGGGAGAG GCTGCCAGA GCCACCCGCT ATCCCCAGCT  
 4101 CTGGGCAGCC CGGGACAGT CACACACCCG GGCTCGCGG CCCAAGCTGG  
 4151 CAGCCGTCTG CAGCCACAGC TTATGCCAGC CCAGGTCCAG CCAGACACCT  
 4201 GAGGGACCCA CTGGTGCCTT GGAGGAAGCA GGAGAGGTCA GATGGCACCA  
 4251 TGAGCTGGGG CAGGTGCAGG GACCGTGGCA GCACCTGGCA GGGCCTCAGA  
 4301 ACCCATGCCT TGGGCACCCCC GGCCATGAGG CCCTGAGGAT TGCAGCCCAA  
 4351 GAGAAGCAGG GAACGCCAGG GCCACAGGGG CAGAGACCAG GCCAGGGTCC

FIG. 3h

4401 CTTGCGGGCCC TTAGCCCACC CCCTCCCAGT AAGCAGGGGC TGCTTGGCTA  
4451 GGCTTCCTTT TGCTACAGAC CTGCTGCTCA CCCAGAGGCC CACGGGCCCT  
4501 AGTGACAAGG TCGTTGTGGC TCCAGGT CCT TGGGGT CCT GACACAGAGC  
4551 CTCTTCTGCA GCACCCCTGA GGACAGGGTG CTCCGCTGGG CACCCAGCCT  
4601 AGTGGGCAGA CGAGAACCTA GGGGCTGCCT GGGCCTACTG TGGCCTGGGA  
4651 GGTCAGCGGG TGACCCCTAGC TACCCCTGTGG CTGGGCCAGT CTGCCTGCCA  
4701 CCCAGGCCAA ACCAATCTGC ACCTTCCTG AGAGCTCCAC CCAGGGCTGG  
4751 GCTGGGGATG GCTGGGCCTG GGGCTGGCAT GGGCTGTGGC TGCAGACCAC  
4801 TGCCAGCTTG GCCCTCGAGG CCAGGAGCTC ACCCTCCAGC TGCCCCGCCT  
4851 CCAGAGTGGG GGCCAGGGCT GGGCAGGCC GTGGACGGCC GGACACTGGC  
4901 CCCGGAAGAG GAGGGAGGCG GTGGCTGGGA TCGGCAGCAG CCGTCCATGG  
4951 GAACACCCAG CGGGCCCCAC TCGCACGGGT AGAGACAGGC GC

APPROVED	O.G. FIG.
	CLASS SUBCLASS
BY	
DRAFTSMAN	

250310 " E5E5T050

FIG. 3i

APPROVED  
O.G. F.W.  
CLASS SUBCLASS  
BY DRAFTSMAN

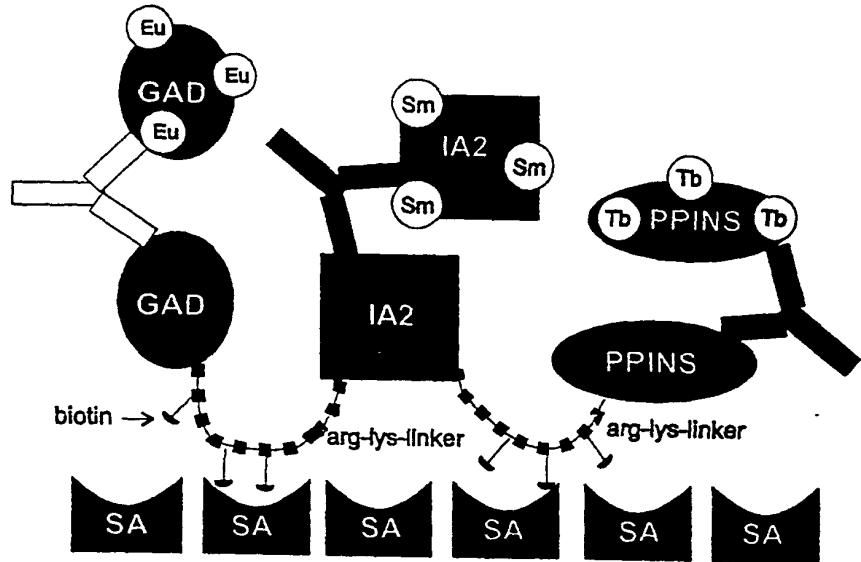


FIG. 4

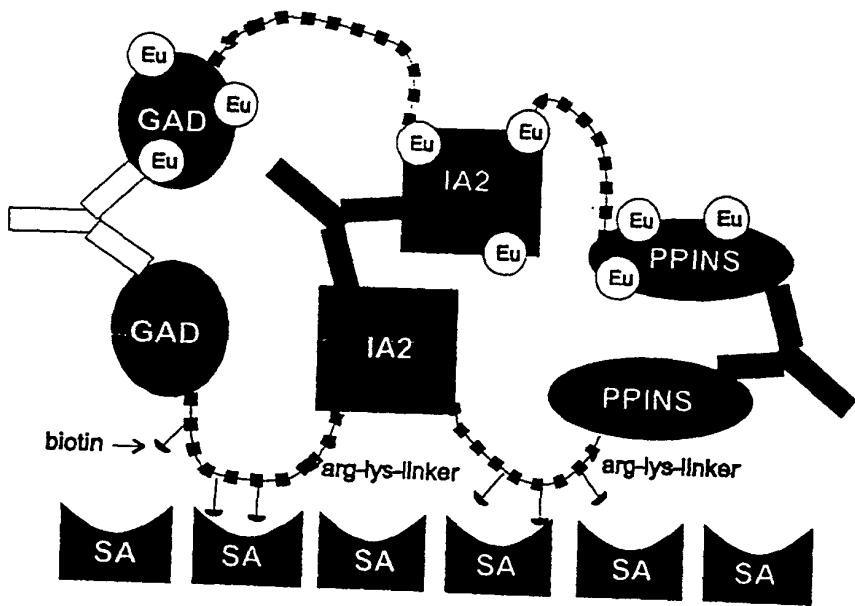


FIG. 5